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VORLAN DEMONSTRATION

SITE - No. 13 Fairway - Predominantly Poa with some Bent - 58,000 sq. ft.

DATES OF APPLICATION - June 4, 1982; July 13, 1982; August 4, 1982

RATES OF APPLICATION - 1 oz. per 1000 sq. ft. - 1/2 fairway - 2 oz. per 1000 sq. ft. - 1/2 fairway

TYPE OF APPLICATION - June 4 application only -

- 400 gal. John Bean with 3/4 KLC 108 Field Jet Nozzle

- Standing pressure 125 psi

- 60 gal. H₂O per acre

- Nalco Trol Drift Retardant

- July 13 & August 4 applications

- Same as above

- Also used Spray Hawk and did two plots; One at 1 oz. - One at 2 oz.

- 5 gal. H₂O per 1000 sq. ft.

NOTE - Initial application was to be made during the week of May 3rd but due to weather conditions unfavorable for disease development first application was not made until June 4. This demonstration was done on our 13th fairway which over the last four years has had a history of severe dollar spot. Half of this fairway was sprayed at 1 oz. and the remaining half at 2 oz. A check plot was maintained at beginning of fairway. This program was set up to be done every 21 days so the next application was due June 26th. However, before this date arrived I received a phone call from Mr. Cecil Kerr requesting me to use a Spray Hawk, which he would furnish, in these tests due to a question of coverage by the Field Jet Nozzle. I agreed to use the Spray Hawk and decided to wait

on the second application as long as I could in hopes of a quick delivery of the Spray Hawk. This became very interesting because the Spray Hawk did not arrive until July 11th and we did not make our application until July 13th - 39 days after our initial application. Well, of course, the check plot was severely infected with dollar spot. The first sign of dollar spot on this check area was June 19th. On July 1st, the half of the fairway sprayed at 1 oz. began to show a very slight infection of dollar spot and the 2 oz. half was immaculate.

On July 13th, the 1 oz. plot had become a little more severe but by no means any major problem. The 2 oz. half was still beautiful although there was some slight activity in a couple spots near the edge of the fairway. 39 days and this fairway was still in top playing condition.

On July 13th we went ahead and made our second application although this time we took part of the fairway and took two passes each at 1 oz. and 2 oz. rates with the Spray Hawk. On August 4th, our third application was made. This application was the same as the July 13th application. At this time inspection of the plots once again showed remarkable results. The 2 oz. plots, Spray Hawk and Field Jet Nozzle, were absolutely free of dollar spot. The 1 oz. plots were excellent except for some very slight activity along the edge of the fairway where the Field Jet Nozzle was used in the application. The 1 oz. Spray Hawk application was also excellent except for slight activity in a patch of bentgrass. The check plot at this time was full of dollar spot.

At this time I must mention that I did make an application of Subdue for Pythium control on August 5th. This treatment was a spot spray treatment where Pythium was noticeably active or spots that we knew would be active by the next day if the weather did not break.

Also, on August 9th, I treated my other fairways for large brown patch. It was not a severe outbreak but it definitely warranted a total application. On this date there was absolutely no sign of large brown patch on the 13th fairway, none in the Vorlan treated areas nor the check plot. Even though the brown patch was in scattered, isolated areas, this fairway was the only fairway with absolutely no infection at all.

This chemical, so far, has looked like a miracle drug but I must now give some bad news. On July 14th I made an application of Bayleton on my fairways, all but No. 13, for Anthracnose. This disease had just begun to affect the turf when this application was made. At this time I sprayed one swath across the 13th fairway for the fun of it.

Almost overnight the orange tint to my fairways began to disappear. On July 16th the Anthracnose was completely cleaned up except on the 13th fairway. The only spot that was not infected with Anthracnose was where we took a swath with the Bayleton. This situation became worse and grew to an epidemic proportion. When I made my August 4th application with Vorlan I hoped to see some results but to no avail. On August 9th I treated the 13th fairway with 1991 at 3 oz. per 1000 sq. ft. This treatment seemed to check the activity of the Anthracnose and on August 16th we fertilized all fairways with 1 lb. of N from 31-3-10 which gave us very nice fill-in of the 13th fairway.

This demonstration was by far the most interesting and I feel gave some of the most astonishing results. This product will definitely be in my pesticide program for next year.

**D. L. Godke, Business Manager
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